

Record 17: JP7258326A**(ENG) MANUFACTURE OF ETHYLENE COPOLYMER****Assignee:** SHOWA DENKO KK

[no drawing available]

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TETSUYA**Application No:** JP 5766694 A**Filing Date:** 19940328**Issue/Publication Date:** 19951009

Abstract: (ENG) <sec>PURPOSE: To obtain an ethylene copolymer excellent in extrusion properties, melt properties, etc., by copolymerizing ethylene with an α -olefin in the presence of a catalyst system comprising a specific solid catalyst component and an organoaluminum compd. in specific 2 stages. CONSTITUTION: A magnesium alcoholate (A) of the formula I (wherein R^{pos="post">1} is alkyl, cycloalkyl, aryl, or the like), a compd. (B) of the formula II (wherein R^{pos="post">2} is a sec. or tert. hydrocarbon group), and a compd. (C) of the formula III (wherein R^{pos="post">3} to R^{pos="post">6} are each an aliph. hydrocarbon group) are dissolved in an inert hydrocarbon solvent, provided that the Mg/Ti molar ratio is in the range of 1 to 4 and the Si/Ti molar ratio is in the range of 0.1 to 5. The resultant soln. is treated with an organoaluminum compd. of the formula IV (wherein R^{pos="post">7} is the same as R^{pos="post">1}; and X is halogen), provided that the Al/Ti molar ratio is in the range of 5 to 20. The resultant solid catalyst component is combined with an organoaluminum compd. to form a catalyst system, in the presence of which ethylene and an α -olefin are copolymerized according to two-stage polymn. wherein a high-molecular component is formed in the first polymn. zone and a low-molecular component is formed in the second polymn. zone, whereby a copolymer is manufactured.</sec>

Priority Data: JP 5766694 19940328 A X;**IPC (International Class):** C08F004658; C08F21002